

AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Fencing of BBMP Properties (Other than gardens Parks) Ward No.08

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
3	Coarse aggregate(20 mm down size)	Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	PCC(M15)	Compressive Strength(7days and 28days)	3 set /16-30 cum	25.29	6	6
8	RCC(M20)	Compressive Strength(7days and 28days)	2 set /6-15 cum	6.65	2	2
9	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
10	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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11	Chain Link Fencing	Average Thickness	One Test		1	1
		Dia of line wire	One Test		1	1
		Mesh size	One Test		1	1
		Nominal dia of mesh wire	One Test		1	1
		Bend Test	One Test		1	1
12	M.S Block Pipe	Yield Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Weight/Meter	One Test		1	1
13	M.S Rectangular pole	Yield stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Form No: CP/TS/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2021-11-20-43 Date: 26-08-21
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Fencing of BBMP Properties (Other than gardens Parks) Ward No.08
Agency : Sri. S K KESHAVAMURTHY , # 104, Sampigehalli, Jakkur Post, Bangalore-560064.
Customer's Reference : EE(Project)/Ynk Zone/WO/88/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 23-08-21
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification.
IS 4031 (Part 1,2,3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY, Clause 6

Date of test : 24-08-21

Environmental Conditions during test : Temperature 26°C
Humidity 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.54	-
2	Fineness by Air permeability method (m^2/kg , Min)	298.2	225 m^2/kg , Min
3	Density (gm/cc)	3.12	-
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	160 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

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[Signature]
R RUDRAPRASAD
Authorized Signatory
Technical Manager

Asst. Executive Engineer
Project Division

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

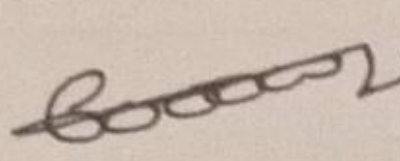
Lab ID : CP-2021-11-20-43 Date: 21-09-21
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Fencing of BBMP Properties (Other than gardens Parks) Ward No.08
Agency : Sri. S K KESHAVAMURTHY , # 104, Sampigehalli, Jakkur Post, Bangalore-560064.
Customer's Reference : EE(Project)/Ynk Zone/WO/88/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 23-08-21
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test : 24-08-21
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.5N/mm ²	Not less than 53 N/mm ²

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore
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FOR CIVIL Pro.
R. Rudraprasad
Authorized Signatory
Technical Manager

A : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-11-20-43 Date: 26-08-21

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Fencing of BBMP Properties (Other than gardens Parks) Ward No.08

Agency : Sri. S K KESHAVAMURTHY , # 104, Sampigehalli, Jakkur Post, Bangalore-560064.

Customer's Reference : EE(Project)/Ynk Zone/WO/88/2020-21

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 23-08-21

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 23-08-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	187	187	1.2	98.8	90-100
3	20 mm	7276	7463	49.8	50.2	30-70
4	10 mm	4074	11537	76.9	23.1	10-35
5	4.75 mm	3000	14537	96.9	3.1	0-5
6	Pan	463	15000	100.0	0	---

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92



A : 9972924526 | Tel : +91 80 23444801 | E : rechdn6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-11-20-43 Date: 26-08-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	—
4	Bulk Density(Loose) (Kg/l)	1.53	—
5	Bulk Density(Compacted) (Kg/l)	1.57	—
6	Water Absorption(%)	0.23	—

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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****End of Report****
Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-11-20-43 Date: 25-08-21
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Fencing of BBMP Properties (Other than gardens Parks) Ward No.08
Agency : Sri. S K KESHAVAMURTHY , # 104, Sampigehalli, Jakkur Post, Bangalore-560064.
Customer Reference : EE(Project)/Ynk Zone/WO/88/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 23-08-21
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 23-08-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	236	236	4.7	95.3	90-100
3	10 mm	2629	2865	57.3	42.7	25-55
4	4.75 mm	1779	4644	92.9	7.1	0-10
5	Pan	356	5000	100	0	—

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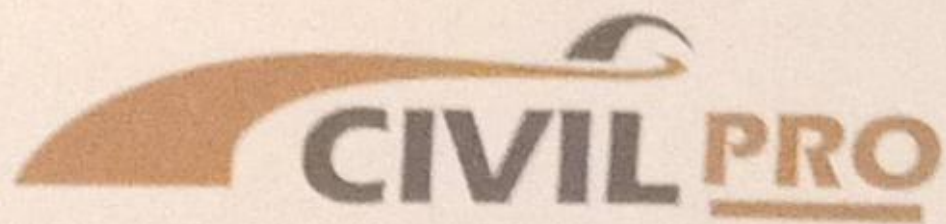
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Asst. Executive Engineer
Project Division



A : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID

: CP-2021-11-20-43

Date: 25-08-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.7	
3	Specific Gravity	2.67	—
4	Bulk Density(Loose) (Kg/l)	1.54	—
5	Bulk Density(Compacted) (Kg/l)	1.58	—
6	Water Absorption(%)	0.22	—
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Asst. Executive Engineer
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End of Report
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

A : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-11-20-43 Date: 25-08-21

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Fencing of BBMP Properties (Other than gardens Parks) Ward No.08

Agency : Sri. S K KESHAVAMURTHY , # 104, Sampigehalli, Jakkur Post, Bangalore-560064.

Customer's Reference : EE(Project)/Ynk Zone/WO/88/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-08-21

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 23-08-21

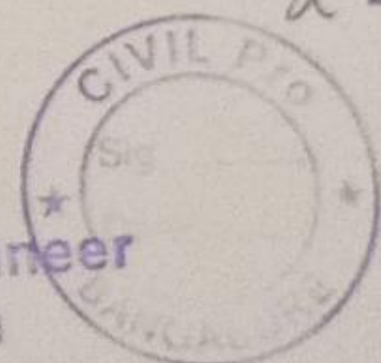
Total weight taken : 1000 grams

Sl. No	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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Asst. Executive Engineer
Project Division
Yelahanka Zone



Ph : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

TEST REPORT OF FINE AGGREGATE

Lab ID

CP-2021-11-20-43

Date: 25-08-21

PHYSICAL PROPERTIES

Sl. No	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	-
2	Specific Gravity	2.59	-
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Technical Manager

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

A : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF STEEL

Lab ID : CP-2021-11-20-43 Date: 07-09-21
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Fencing of BBMP Properties (Other than gardens Parks) Ward No.08
Agency : Sri. S K KESHAVAMURTHY , # 104, Sampigehalli, Jakkur Post, Bangalore-560064.
Customer's Reference : EE(Project)/Ynk Zone/WO/88/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 06-09-21
Sample Type : Sunvik
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test : 06-09-21

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

The results obtained are satisfactory as per standard requirements.

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92



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R RUDRAPRASAD
Authorized Signatory
Technical Manager

A : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT FOR SAND MASONRY MORTARS

ID : CP-2021-11-20-43 Date: 25-11-21

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Fencing of BBMP Properties (Other than gardens Parks) Ward No.08

Agency : Sri. S K KESHAVAMURTHY , # 104, Sampigehalli, Jakkur Post, Bangalore-560064.

Customer's Reference : EE(Project)/Ynk Zone/WO/88/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-11-21

Sample Type : Fine Aggregate, M.Sand for Mortar

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 22-11-21

Sample weight taken : 1000 grams

Sl. No	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92



R. Anand

A : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID

: CP-2021-11-20-43

Date: 25-11-21

PHYSICAL PROPERTIES

S.No	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	—
2	Specific Gravity	2.51	—
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	—
5	Loose Bulk Density (Kg/litre)	1.73	—

The results obtained are satisfactory as per standard requirements.

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R. Rudraprasad

R. RUDRAPRASAD
Authorized Signatory
Technical Manager

[Signature]
Asst. Executive Engineer

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Yelahanka Zone

BBMP, Bangalore - 92

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Sl. No. : CP-2021-11-20-43 Date: 30-09-21
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Fencing of BBMP Properties (Other than gardens Parks) Ward No.08
Agency : Sri. S K KESHAVAMURTHY , # 104, Sampigehalli, Jakkur Post, Bangalore-560064.
Customer's Reference : EE(Project)/Ynk Zone/WO/88/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 26-09-21
Sample Type/Size : Solid concrete blocks size (400X150X200)mm
Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification
Part 1: Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and 10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test : 26-09-21

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10 ⁶	Avg. Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm ³)	Kg	Kg/m ³	Kg/m ³	
1	400	151	201	12140	21.424	1764.7	1813.5	Not less than 1800Kg/m ³
2	401	148	199	11810	21.497	1820.2		
3	399	152	201	12190	22.622	1855.7		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg. Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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ID

: CP-2021-11-20-43

Date: 30-09-21

MEASUREMENT ANALYSIS

S.No	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	149	199	Length : $\pm 5\text{mm}$ Breadth : $\pm 3\text{mm}$ Height : $\pm 3\text{mm}$
2	400	150	199	
3	402	152	201	
4	404	153	201	
5	400	149	202	
6	403	150	201	
7	400	149	201	
8	402	152	201	
9	400	151	201	
10	404	151	201	
11	399	151	201	
12	404	150	203	
13	402	151	201	
14	403	151	202	
15	399	151	199	
16	400	152	200	
17	402	152	201	
18	401	150	202	
19	403	151	203	
20	404	151	202	
Average of 20	402	151	201	

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[Signature]

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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CP-2021-11-20-43

Date: 30-09-21

IMPRESSIVE STRENGTH:

No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm ²)	(kN)	N/mm ²	(N/mm ²)
1	400	149	59644	246.9	4.1	4.2
2	400	150	60014	253.1	4.2	
3	402	152	61125	252.8	4.1	
4	404	153	61643	254.7	4.1	
5	400	149	59664	246.0	4.1	
6	403	150	60350	254.0	4.2	
7	400	149	59548	255.1	4.3	
8	402	152	61087	256.0	4.2	

as per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm ²	4.00 N/mm ²
C (4.0)	4.00 N/mm ²	3.20 N/mm ²

The Results Obtained are Satisfactory as per Standard Requirements

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Asst. Executive Engineer
Project Division
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Mehanka Zone
BBMP, Bangalore - 92



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R RUDRAPRASAD
Authorized Signatory
Technical Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/10/2021

ID : CP-2021-11-20-43
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Fencing of BBMP Properties (Other than gardens Parks) Ward No.08
Agency : Sri. S K KESHAVAMURTHY , # 104, Sampigehalli, Jakkur Post, Bangalore-560064.
Customer's Reference : EE(Project)/Ynk Zone/WO/88/2020-21
Place of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 01-10-21
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 06/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
PCC	M15	29/09/2021	06/10/2021	151.36 X 151.47 X 151.39	22927	8.974	297.5	13.0	12.7
PCC	M15	29/09/2021	06/10/2021	149.74 X 150.67 X 149.46	22561	8.450	287.6	12.7	
PCC	M15	29/09/2021	06/10/2021	149.05 X 150.37 X 149.82	22412	8.605	275.7	12.3	

The results obtained are satisfactory as per standard requirements.

Note:

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92



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[Signature]

R RUDRAPRASAD
Authorized Signatory
Technical Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

CP-2021-11-20-43
Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Project Sub Division, BBMP, Bangalore.
Fencing of BBMP Properties (Other than gardens Parks) Ward No.08
Sri. S K KESHAVAMURTHY , # 104, Sampigehalli, Jakkur Post, Bangalore-560064.
EE(Project)/Ynk Zone/WO/88/2020-21
Sample supplied by Agency
Satisfactory
01-10-21
PCC
150X150X150 mm
M15 / 7 Days Compressive Strength
IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
06/10/2021

Date: 06/10/2021

Sl. No.	Date of test	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
						(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1		PCC	M15	29/09/2021	06/10/2021	150.44 X	22823	8.974	289.8	12.7	12.5
						151.71 X					
						150.51					
2		PCC	M15	29/09/2021	06/10/2021	149.09 X	22376	8.450	280.2	12.5	
						150.08 X					
						150.74					
3		PCC	M15	29/09/2021	06/10/2021	150.86 X	22610	8.605	277.1	12.3	
						149.87 X					
						151.45					

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Project Division
Yelahanka Zone
BBMP, Bangalore - 92



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R. RUDRAPRASAD
Authorized Signatory
Technical Manager

M. 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Date: 27/10/2021

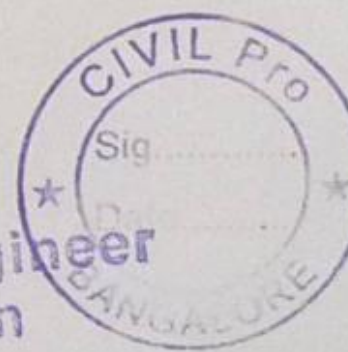
CP-2021-11-20-43
Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Project Sub Division, BBMP, Bangalore.
Fencing of BBMP Properties (Other than gardens Parks) Ward No.08
Sri. S K KESHAVAMURTHY , # 104, Sampigehalli, Jakkur Post, Bangalore-560064.
EE(Project)/Ynk Zone/WO/88/2020-21
Sample supplied by Agency
Satisfactory
01-10-21
PCC
150X150X150 mm
M15 / 28 Days Compressive Strength
IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
27/10/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)					
1	PCC	M15	29/09/2021	27/10/2021	151.15 X 149.55 X 150.27	22604	8.467	393.3	17.4	17.3
2	PCC	M15	29/09/2021	27/10/2021	149.45 X 151.13 X 149.24	22586	8.780	389.0	17.2	
3	PCC	M15	29/09/2021	27/10/2021	151.69 X 151.67 X 151.51	23008	8.162	394.4	17.1	

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92



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R. Rudraprasad
Authorized Signatory
Technical Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

CP-2021-11-20-43

Date: 11/10/2021

: Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
: Project Sub Division, BBMP, Bangalore.
: Fencing of BBMP Properties (Other than gardens Parks) Ward No.08
: Sri, S K KESHAVAMURTHY , # 104, Sampigehalli, Jakkur Post, Bangalore-560064.
: EE(Project)/Ynk Zone/WO/88/2020-21
: Sample supplied by Agency
: Satisfactory
: 06-10-21
: PCC
: 150X150X150 mm
: M15 / 7 Days Compressive Strength
: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
: 11/10/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	04/10/2021	11/10/2021	151.69 X	22966	8.974	290.3	12.6	12.4
					151.39 X					
					150.15					
2	PCC	M15	04/10/2021	11/10/2021	149.69 X	22393	8.450	269.2	12.0	
					149.60 X					
					151.33					
3	PCC	M15	04/10/2021	11/10/2021	151.63 X	22802	8.605	286.2	12.6	
					150.38 X					
					151.15					

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Yelahanka Zone
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FOR CIVIL Pro.
R. Rudraprasad
Authorized Signatory
Technical Manager

9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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